

PATENT CLAIMS

1. A device for purification of air comprising
 - a metal plate (10)
 - electrical connections connected to the metal plate (10) in order to impress
- 5 a voltage on the metal plate,
characterised in that it also comprises
 - a heating element (20) for heating the metal plate (10),
 - a nozzle (21) connected to a water supply (22) in order to spray the metal
- 10 plate (10) with water.
2. A device as in claim 1,
characterised in that the heating element (20) is comprised of an electrical
resistor and produces an output of 700W.
3. A device as in claim 1,
characterised in that the metal plate (10) reaches a temperature of
- 15 approximately 500°C.
4. A device as in claim 1,
characterised in that it also comprises a metallic cylinder (30), a fan (31)
disposed at one end of the cylinder and a restriction (32) disposed at the
other end of the cylinder.
- 20 5. A device as in claims 1-4,
characterised in that it also comprises current conducting coils (41,42) in
order to provide an electromagnetic field, where the centre of the
electromagnetic field round the coils (41,42) coincides with the location of
the device's other units.
- 25 6. A device as in claim 5,
characterised in that the coils (41,42) are electrically connected in series to
the heating element (20).
7. A device as in one of the preceding claims,
characterised in that the metal plate (10) is made of beryllium bronze.
- 30 8. A device as in one of the preceding claims,
characterised in that the metal plate (10) is made of copper (Cu).

9. A device as in one of the preceding claims, characterised in that it also comprises a suction unit (24) for removing the vapour produced when the water from the nozzle (21) strikes the hot metal plate (10).